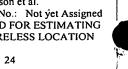
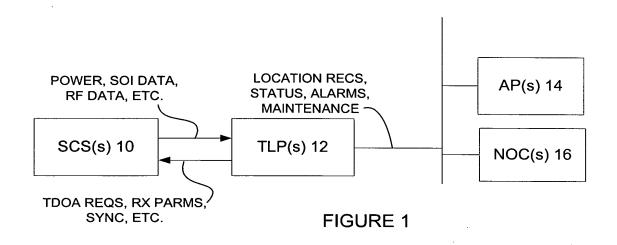
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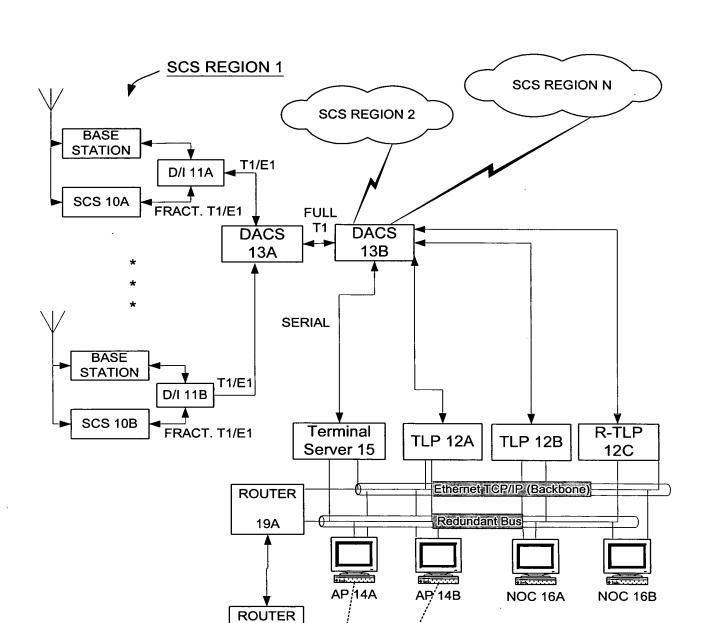


FIGURE 1A

Master Tasking

List

Master

Tasking

List

19B

OTHER WLS(s)

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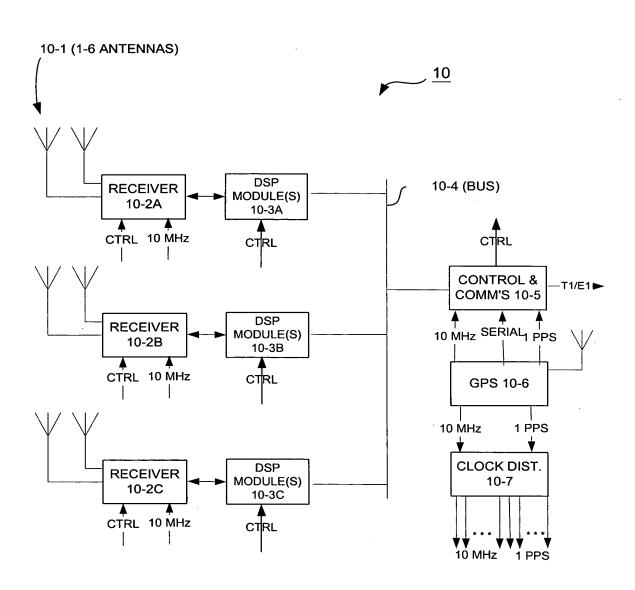
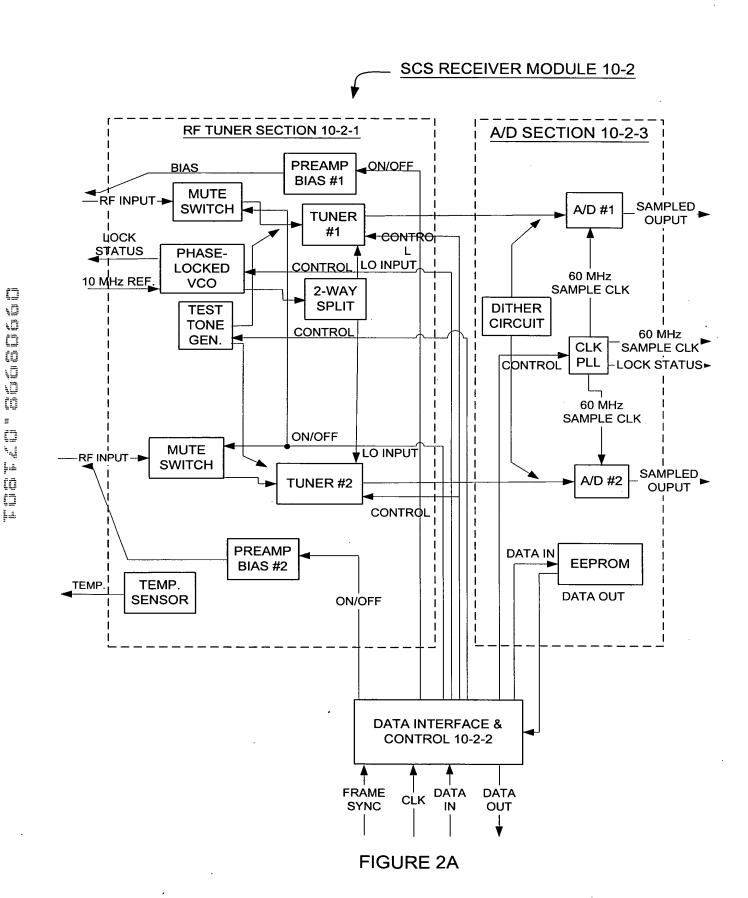


FIGURE 2

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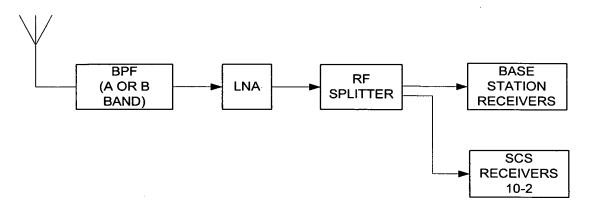


FIGURE 2B

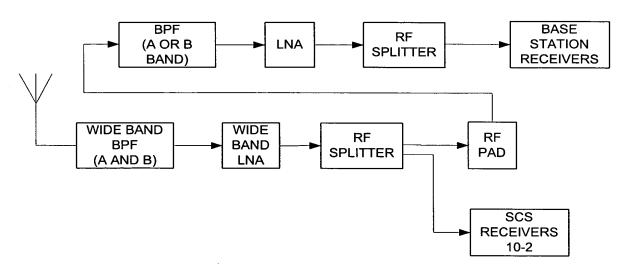


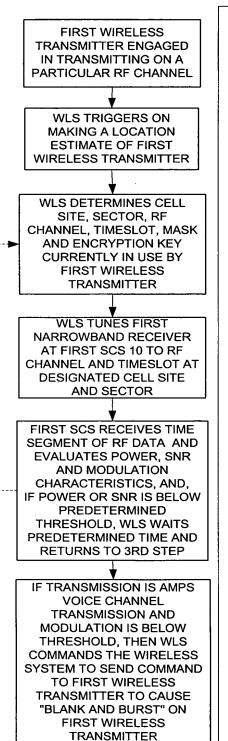
FIGURE 2C

SYSTEM

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WLS REQUESTS WIRELESS SYSTEM TO PREVENT HAND-OFF OF WIRELESS TRANSMITTER TO ANOTHER RF CHANNEL FOR PREDETERMINED PERIOD WLS RECEIVES RESPONSE INDICATING TIME PERIOD **DURING WHICH 1ST** TRANSMITTER WILL BE PREVENTED FROM HANDING-OFF AND, IF COMMANDED, TIME PERIOD DURING WHICH SYSTEM WILL SEND COMMAND TO 1ST TRANSMITTER TO CAUSE "BLANK AND BURST" WLS DETERMINES LIST OF ANTENNAS THAT WILL BE USED IN LOCATION **PROCESSING** WLS DETERMINES **EARLIEST TIMESTAMP AT** WHICH NARROWBAND RECEIVERS ARE AVAILABLE TO BEGIN COLLECTING RF DATA WLS COMMANDS NARROWBAND RECEIVERS TO TUNE TO CELL SITE, SECTOR AND RF CHANNEL **CURRENTLY IN USE BY 1ST** TRANSMITTER AND TO RECEIVE RF DATA FOR PREDETERMINED DWELL TIME RF DATA RECEIVED BY NARROWBAND RECEIVERS IS WRITTEN INTO DUAL

PORT MEMORY

LOCATION PROCESSING ON RECEIVED RF DATA COMMENCES WLS AGAIN DETERMINES CELL SITE, SECTOR, RF CHANNEL, TIMESLOT, MASK AND ENCRYPTION KEY CURRENTLY IN USE BY 1ST TRANSMITTER IF CELL SITE, SECTOR, RF CHANNEL, TIMESLOT, MASK AND ENCRYPTION KEY CURRENTLY IN USE BY 1ST TRANSMITTER HAS CHANGED BETWEEN QUERIES, WLS CEASES LOCATION PROCESSING. CAUSES ALERT MESSAGE AND RE-TRIGGERS **ENTIRE PROCESS** LOCATION PROCESSING ON RECEIVED RF DATA

COMPLETES

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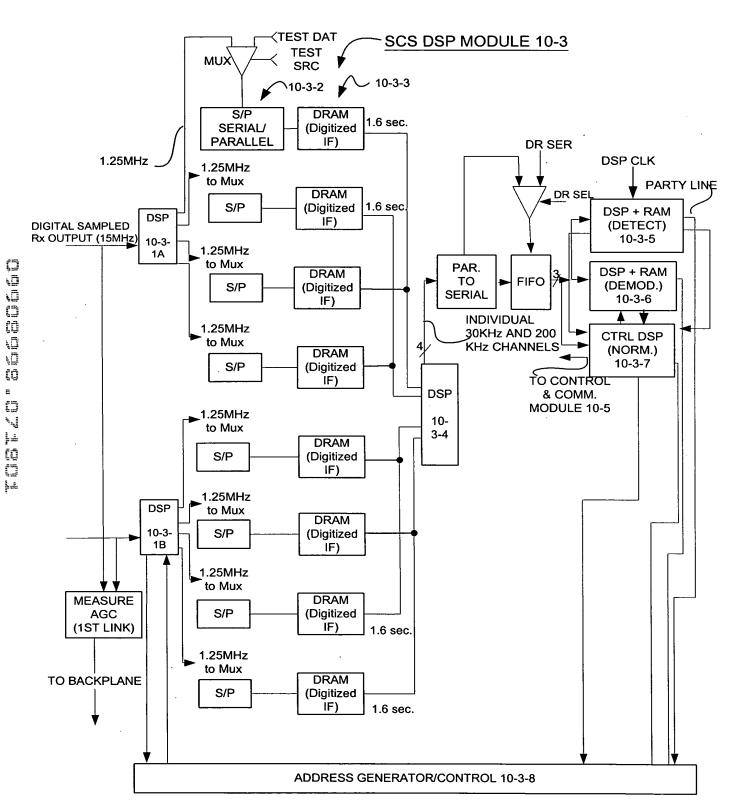


FIGURE 2D

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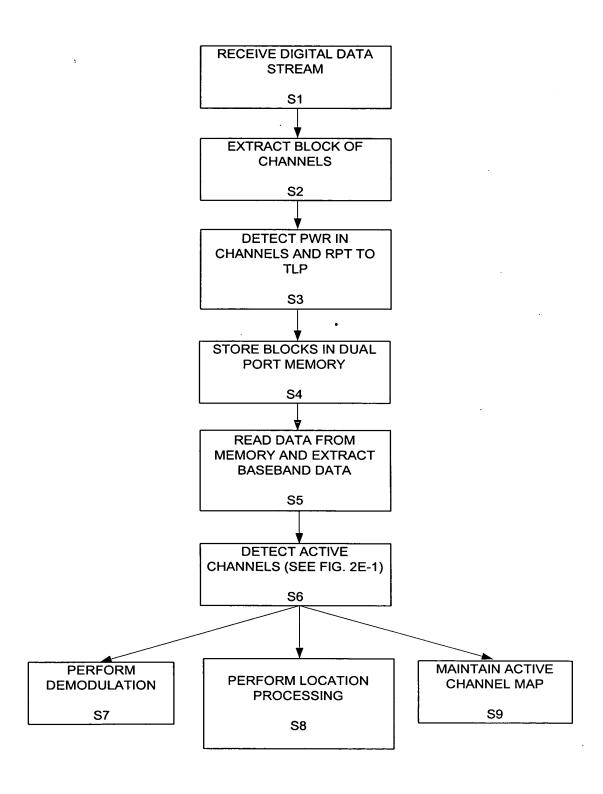


FIGURE 2E

SYSTEM

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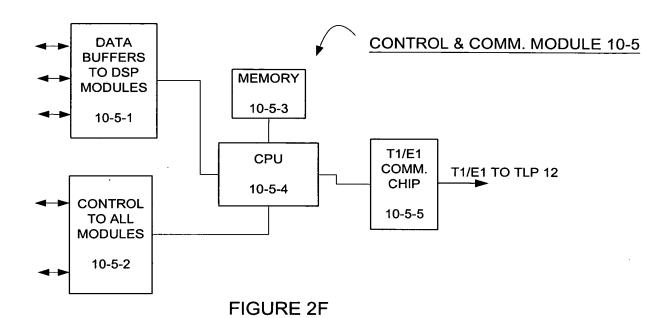
Filing Date: Herewith; Serial No.: Not yet Assigned
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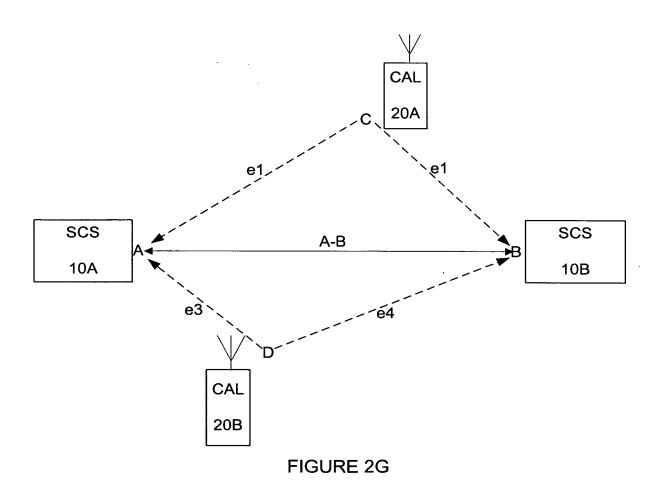
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FOR EACH POSSIBLE CONTROL AND/OR VOICE CHANNEL WHICH MAY BE USED IN THE COVERAGE AREA OF THE SCS, ESTABLISH PEG COUNTERS S7-1 AT THE START OF A DETECTION PERIOD, RESET ALL PEG COUNTERS TO ZERO S7-2 EACH TIME A TRANSMISSION OCCURS IN A SPECIFIED RF CHANNEL AND THE RECEIVED POWER LEVEL IS ABOVE PRE-SET THRESHOLD, INCREMENT PEG COUNTER FOR THAT CHANNEL S7-3 EACH TIME A TRANSMISSION OCCURS IN A SPECIFIED RF CHANNEL AND THE RECEIVED POWER LEVEL IS ABOVE SECOND PRE-SET THRESHOLD, ATTEMPT TO DEMODULATE A PORTION OF THE TRANSMISSION USING A FIRST PREFERRED PROTOCOL **S7-4** IF DEMODULATION IS SUCCESSFUL, INCREMENT SECOND PEG COUNTER FOR THAT CHANNEL S7-5 IF DEMODULATION IS UNSUCCESSFUL, ATTEMPT TO DEMODULATE A PORTION OF THE TRANSMISSION USING A SECOND PREFERRED PROTOCOL S7-6 IF DEMODULATION IS SUCCESSFUL, INCREMENT THIRD PEG COUNTER FOR THAT CHANNEL S7-7 AT THE END OF A DETECTION PERIOD, READ ALL PEG COUNTERS S7-8 AUTOMATICALLY ASSIGN PRIMARY CHANNELS BASED UPON PEG COUNTERS S7-9

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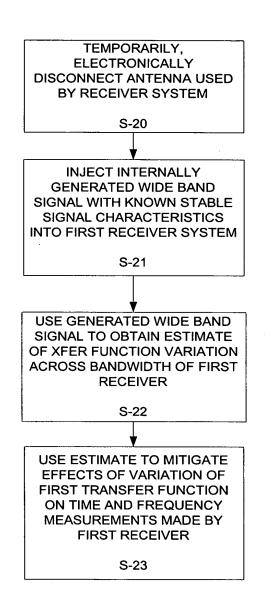


FIGURE 2H

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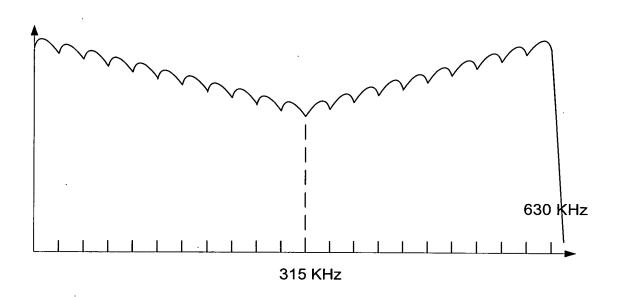


FIGURE 21

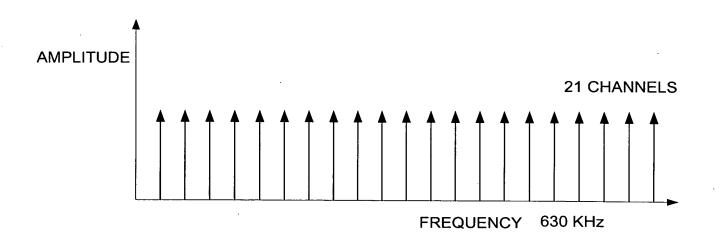


FIGURE 2J

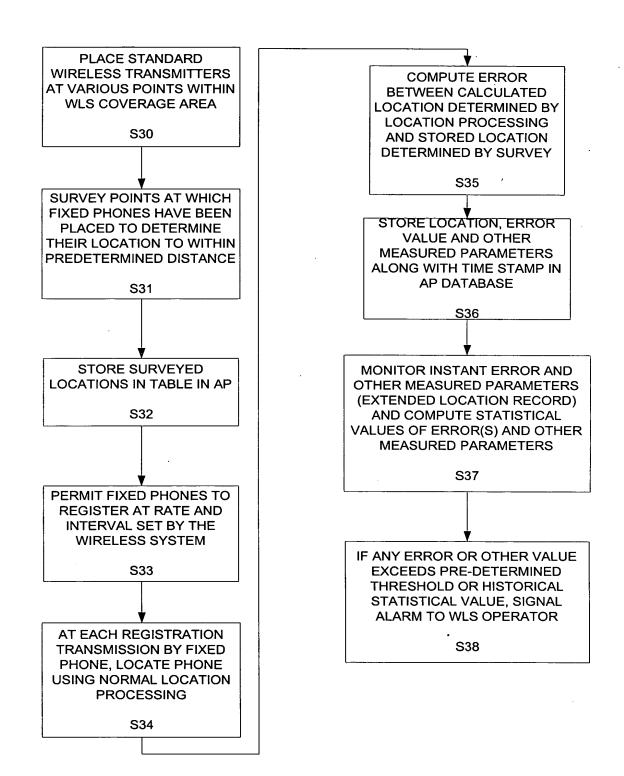
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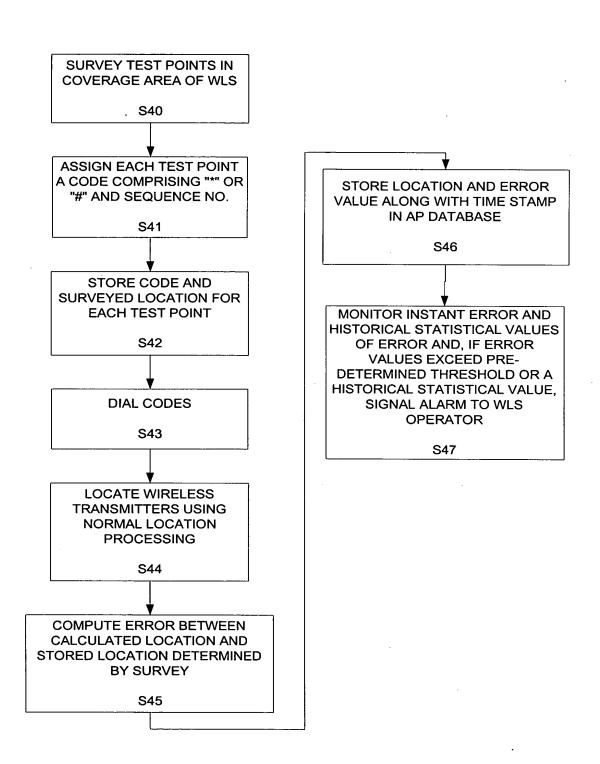


FIGURE 2L

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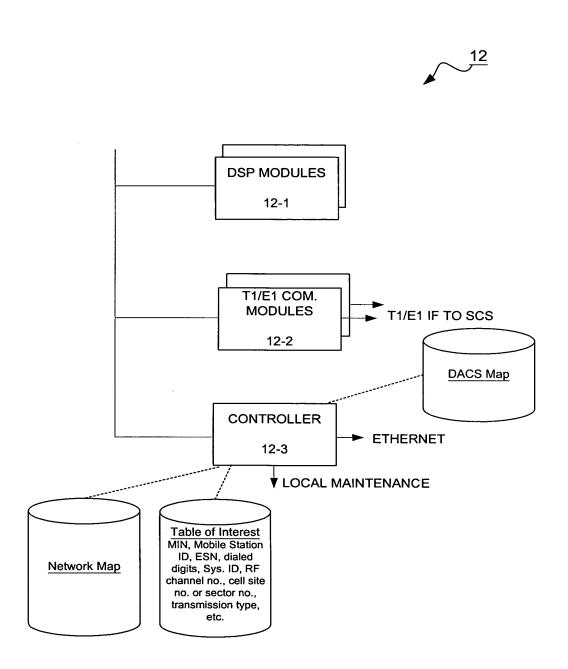


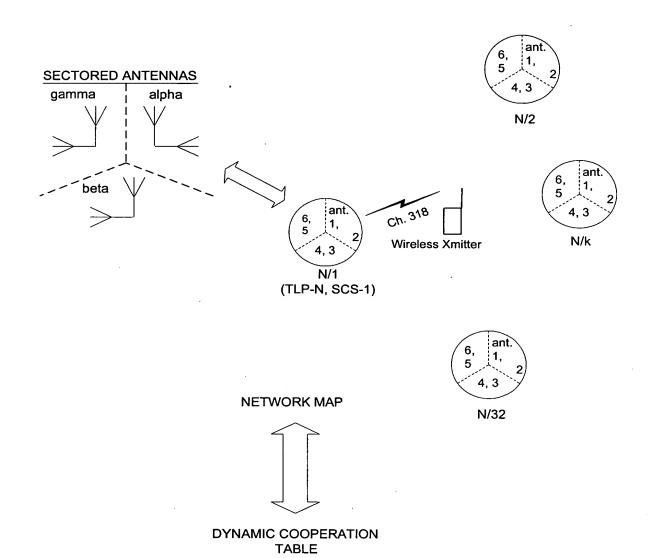
FIGURE 3

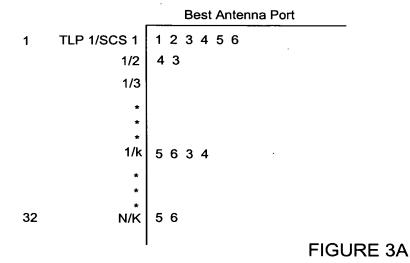
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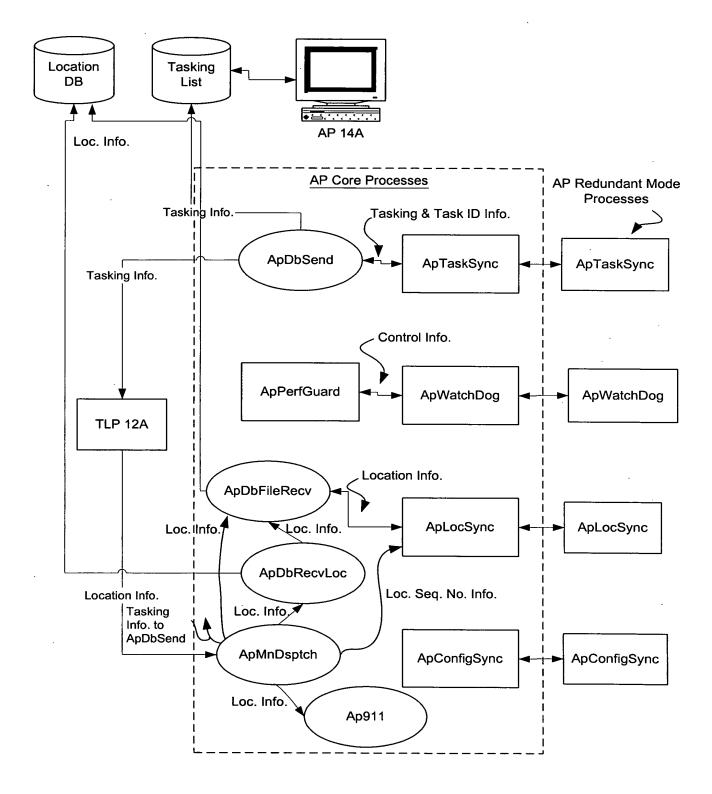


FIGURE 4

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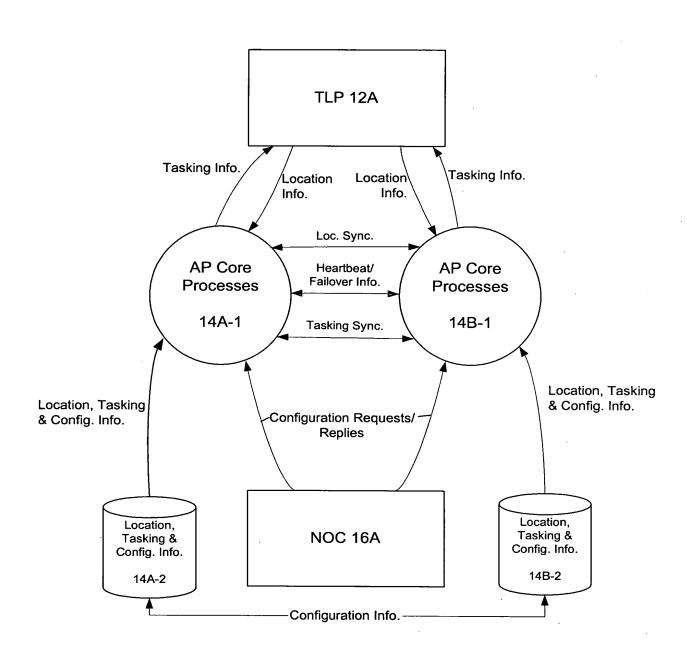


FIGURE 4A

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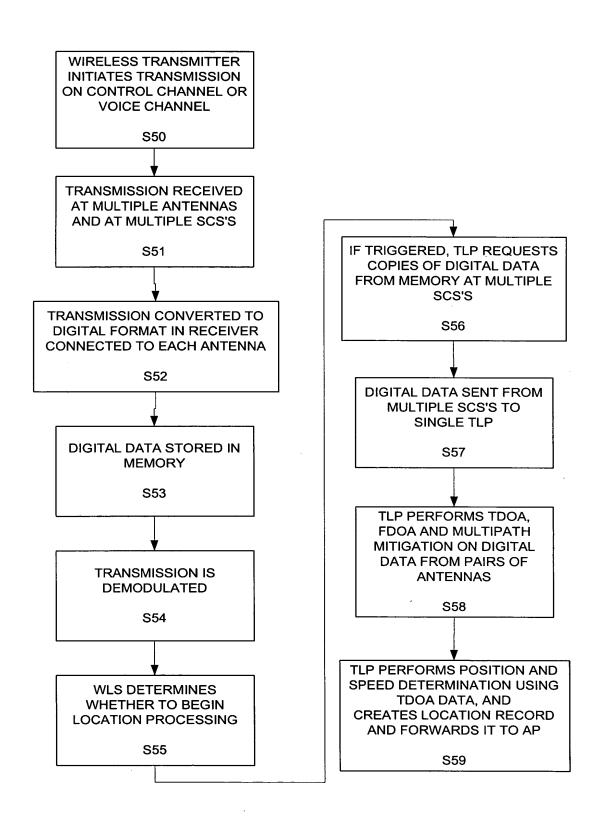


FIGURE 5

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FIRST SCS AND EACH WIRELESS TRANSMITTER IF TRIGGERED, FIRST SCS SECOND SCS CREATE FIRST INITIATES TRANSMISSION **DEMODULATES TRANSMISSION** ON EITHER CONTROL RE-MODULATED SIGNAL AND AND DETERMINES APPROPRIATE PHASE CORRECTION AND CHANNEL OR VOICE PHASE CORRECTION INTERVAL **AMPLITUDE CORRECTION CHANNEL PARAMETERS S66** S60 S71 FOR EACH PHASE CORRECT. TRANSMISSION RECEIVED INTERVAL, FIRST SCS AT MULTIPLE ANTENNAS FIRST SCS AND EACH SECOND **CALCULATES PHASE** AND MULTIPLE SCS'S SCS PERFORM TDOA, FDOA & CORRECTION & AMP. MULTIPATH MITIGATION USING CORRECTION, AND ENCODES S61 DATA STORED IN MEMORY & PHASE AND AMP. CORRECTION FIRST RE-MODULATED SIGNAL PARAMETERS ALONG WITH **DEMODULATED DATA S72 TRANSMISSION** S67 CONVERTED INTO DIGITAL FORMAT IN RECEIVER CONNECTED TO EACH TDOA, FDOA, AND MULTIPATH **ANTENNA** MITIGATION DATA SENT FROM **DEMODULATED DATA AND** FIRST SCS AND EACH SECOND S62 PHASE CORRECTION AND SCS TO TLP AMPLITUDE CORRECTION PARAMETERS SENT FROM FIRST S73 SCS TO TLP DIGITAL DATA STORED IN **MEMORY IN SCS S68** S63 TLP PERFORMS POSITION AND SPEED DETERMINATION USING **TDOA DATA** TLP DETERMINES SCS'S AND RECEIVING ANTENNAS TO USE IN **S74 TRANSMISSION LOCATION PROCESSING** DEMODULATED S69 **S64** TLP CREATES LOCATION RECORD, AND FORWARDS TLP SENDS DEMODULATED DATA LOCATION RECORD TO AP AND PHASE CORRECTION AND **WLS DETERMINES AMPLITUDE CORRECTION** WHETHER TO BEGIN **S75** PARAMETERS TO EACH SECOND LOCATION PROCESSING SCS THAT WILL BE USED IN LOCATION PROCESSING **S65** S70

FIGURE 6

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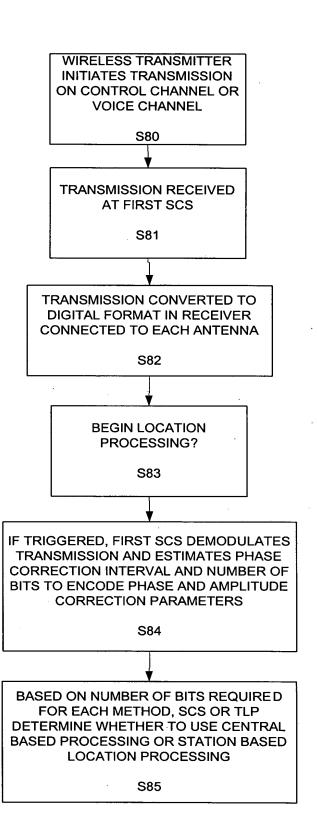


FIGURE 7

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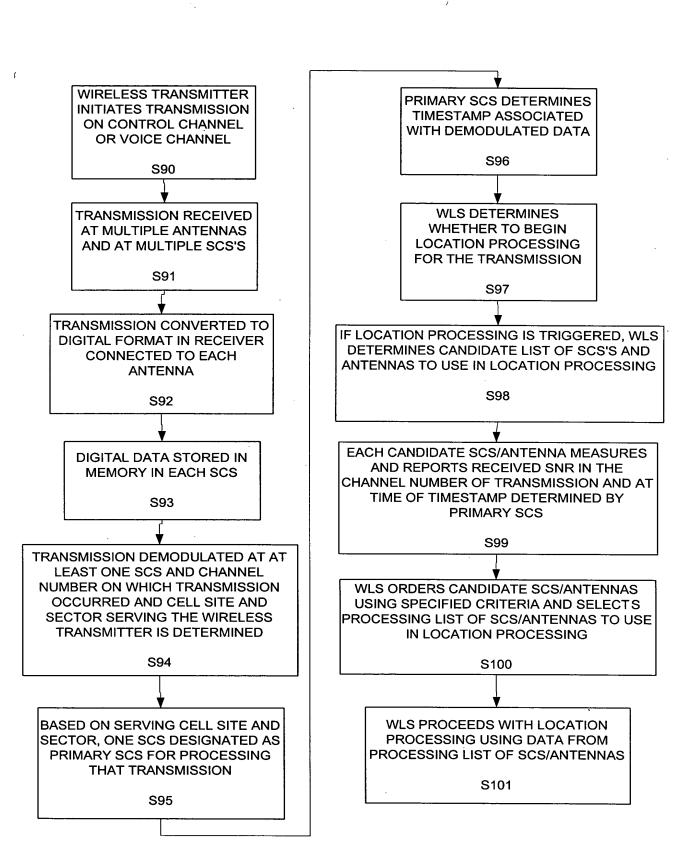


FIGURE 8

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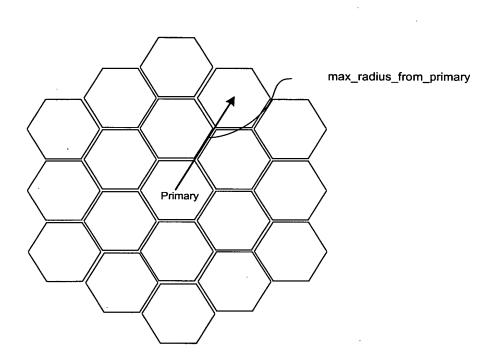


FIGURE 9

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